

Headquarters U. S. Air Force

***I n t e g r i t y - S e r v i c e - E x c e l l e n
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ITF Innovations & Initiatives (I&I) Process

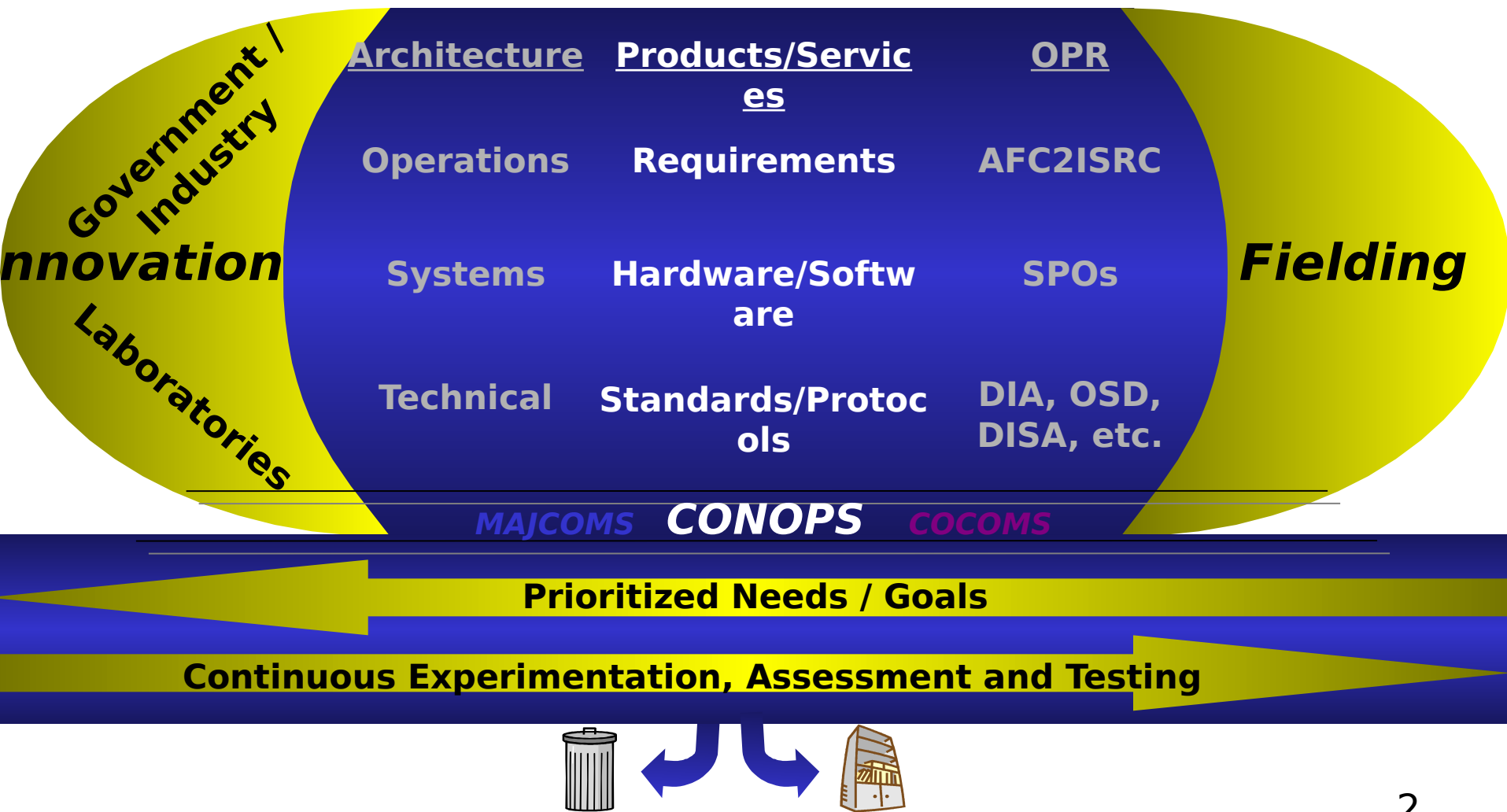


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C2ISR Innovation to the Warfighter





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Overview

- **Background**
- **Innovations & Initiatives Requirement**
- **ITF Structure**
- **ITF Process**
- **Quicklook and Detailed Analysis**
- **I&I Master List**
- **Website for Innovation Submission**



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Background

- **AFC2ISRC Integration Task Force (ITF)**
 - **Created to implement the AFC2ISRC Net-Centric Pathfinder Integration Plan**
 - **Executive Council and 4 Working Groups**
 - **A Community of Interest (COI) for the Pathfinder Programs**
 - **Focused on net-centric pillars of Data, Services, Transport and IA/Security**





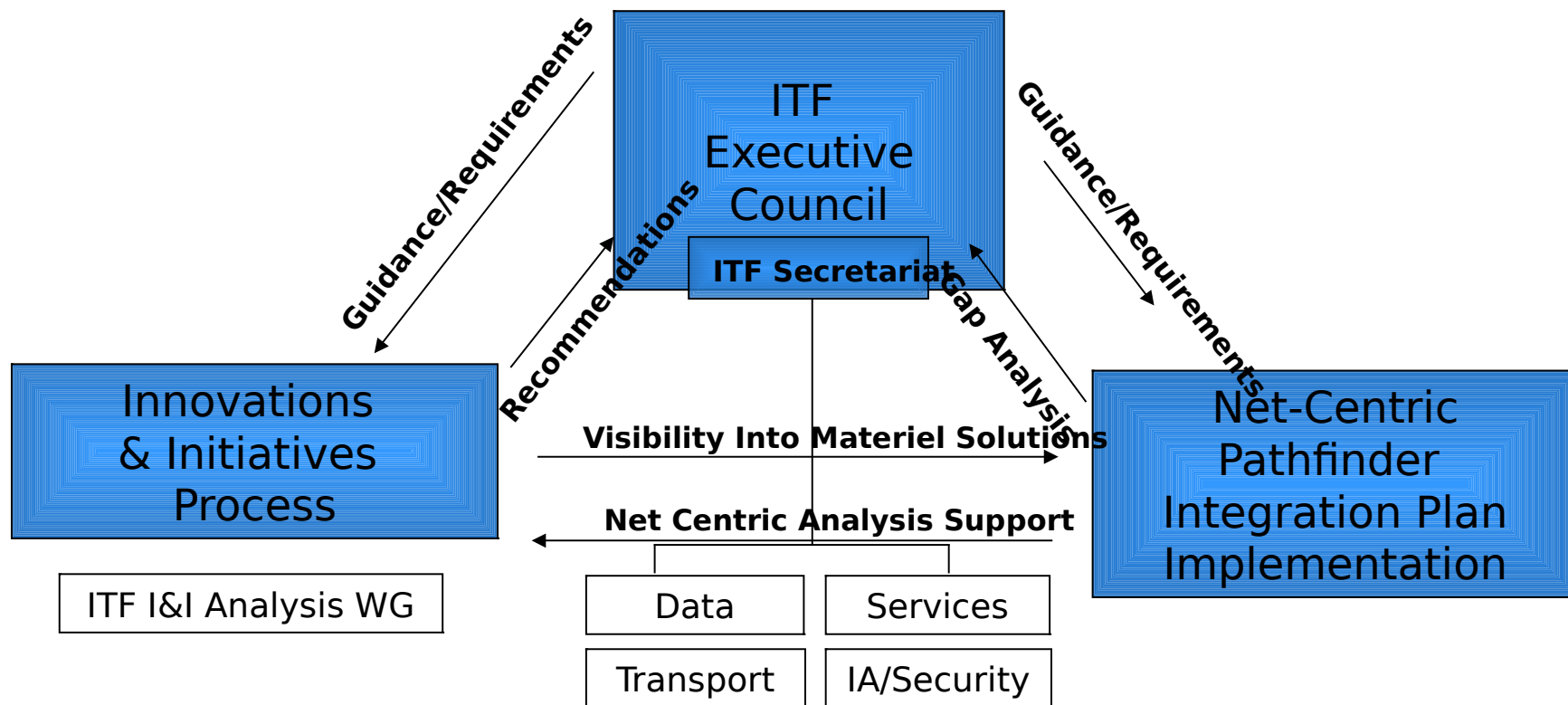
Innovations & Initiatives Process Requirement

- **Need a process to track Innovations & Initiatives from the “good idea” stage throughout the lifecycle to include:**
 - **Selection**
 - **Categorization**
 - **Prioritization**
 - **Experimentation**
 - **Development**
 - **Testing**
 - **Fielding**



The Integration Task Force Structure

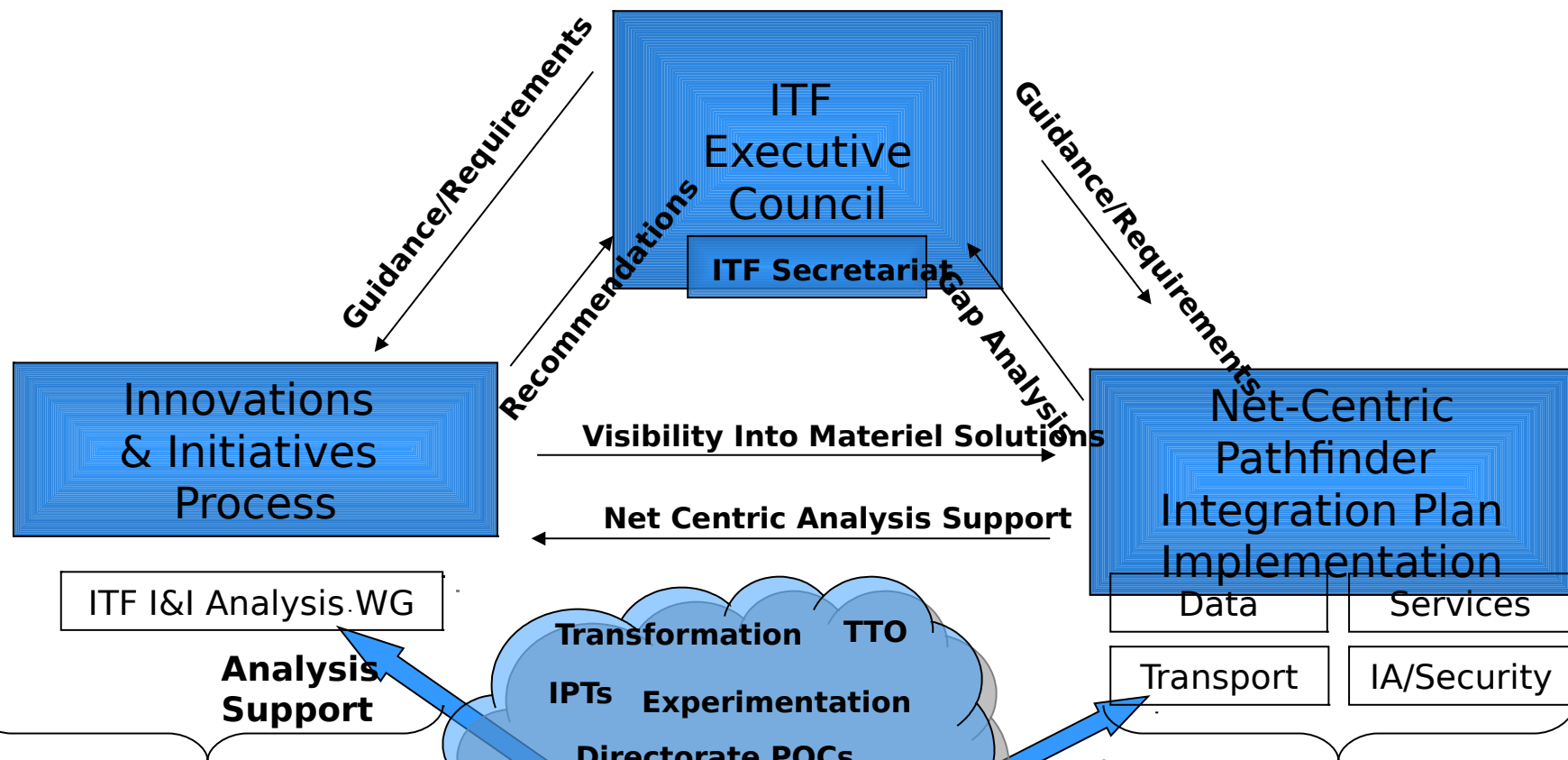
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The Integration Task Force Structure

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REQUIREMENTS ANALYSIS

The ITF Innovations & Initiatives WG will recommend new initiatives to the ITF Executive Council based on requirements analysis to include MCPs, nodal analyses, C2ISR ENAs, I

REQUIREMENTS ANALYSIS

The ITF WGs perform requirements analysis across the C2 Constellation as directed by the Executive Council. This analysis will include not only net-centric considerations, but also MCP

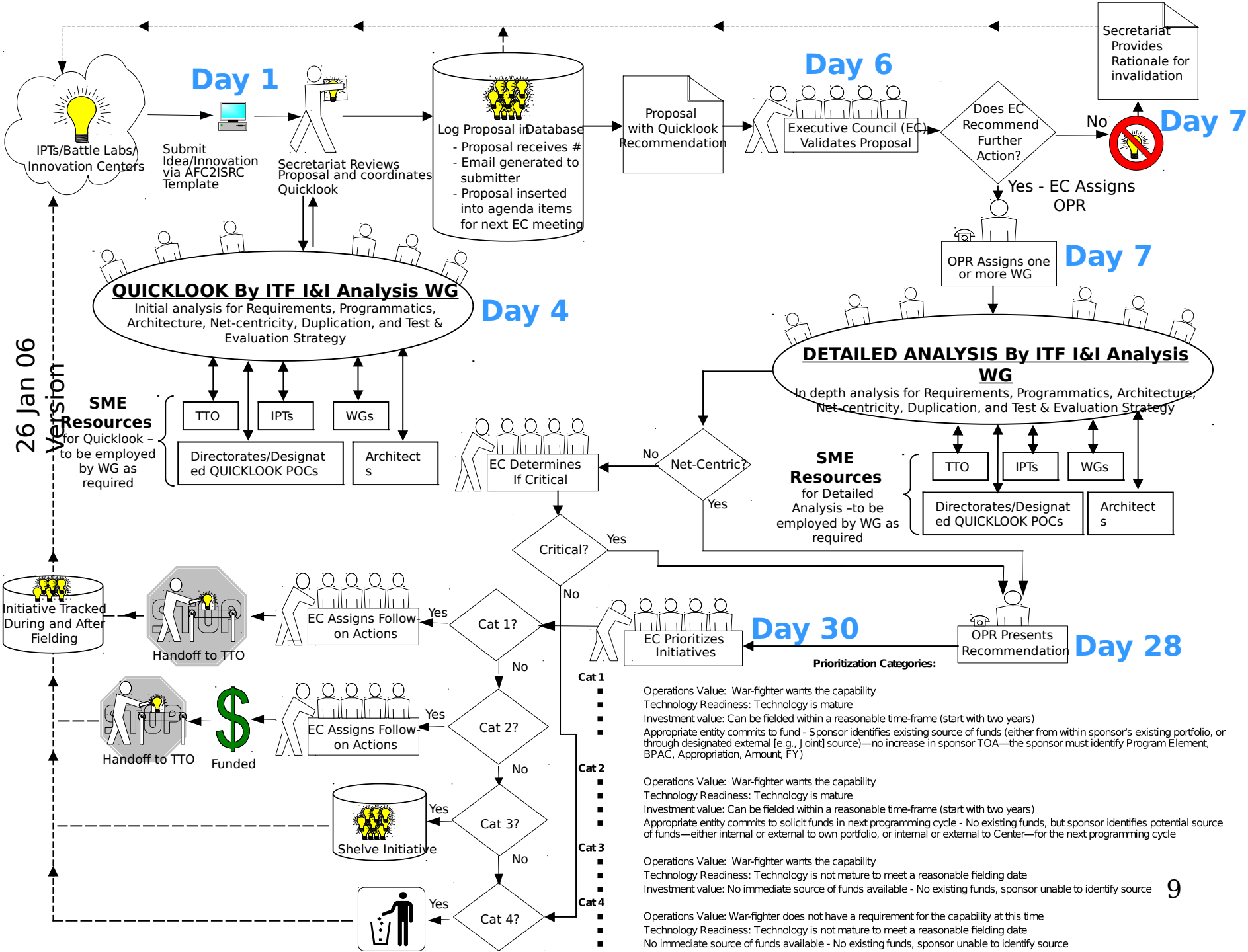
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Why ITF I&I Analysis WG?

- **Existing ITF WGs (Data Services, Transport, IA/Security) are “Net-Centricity” focused and may not be correct mix to lead Quicklook and Detailed Analyses of innovations**
- **Additional ITF WG required to Conduct Quicklook and Detailed Analysis of Innovations**
- **Membership**
 - **A2, A3, A4, A5, A6, A8, CTI, C2BL, ISRBL, AFEO, CTT, CTA, TTO, FM, and reps from AFCA and ESC, other SMEs as required**
- **Resources**
 - **For Quicklook and Detailed Analysis CTI/CTA may task any directorate or other ITF WGs (Data, Services, Transport, IA/Security)**





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Prioritization Categories

■ **Prioritization categories:**

■ **Cat 1**

- Operations Value: War-fighter wants the capability
- Technology Readiness: Technology is mature
- Investment value: Can be fielded within a reasonable time-frame (start with two years)
- Appropriate entity commits to fund - Sponsor identifies existing source of funds (either from within sponsor's existing portfolio, or through designated external [e.g., Joint] source)—no increase in sponsor TOA—the sponsor must identify Program Element, BPAC, Appropriation, Amount, FY)

■ **Cat 2**

- Operations Value: War-fighter wants the capability
- Technology Readiness: Technology is mature
- Investment value: Can be fielded within a reasonable time-frame (start with two years)
- Appropriate entity commits to solicit funds in next programming cycle - No existing funds, but sponsor identifies potential source of funds—either internal or external to own portfolio, or internal or external to Center—for the next programming cycle

■ **Cat 3**

- Operations Value: War-fighter wants the capability
- Technology Readiness: Technology is not mature to meet a reasonable fielding date
- Investment value: No immediate source of funds available - No existing funds, sponsor unable to identify source



■ **Cat 4**

- Operations Value: War-fighter does not have a requirement for the capability at this time
- Technology Readiness: Technology is not mature to meet a reasonable fielding date
- No immediate source of funds available - No existing funds, sponsor unable to identify source





Quicklook and Detailed Analysis

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■ Quicklook

■ Facilitated by Secretariat/Performed by I&I Analysis WG

- Working group is a core team made up from the Directorates, ITF WGs, Architects, IPTs and SMEs as required**

■ Detailed Analysis

■ Performed by I&I Analysis WG

- Working group is a core team made up from the Directorates, ITF WGs, Architects, IPTs and SMEs as required**



Requirements Analysis Process for

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~~Innovations & Initiatives~~

Current Criteria

Multiple Existing Sources

- **AFI 10-601 Capability-based Requirements & CJCSI 3270.01E (JCIDS) Processes**
 - Programs of Record (PoRs)/Systems of Record (SoRs)
 - Weapons Systems RWGs/IPTs
 - ICDs, CDDs
 - Architectural views and products
- **AFI Capabilities-based Planning**
 - AF Enterprise-level C2 FAA/FNA
 - AF Enterprise-level ISR FAA/FNA
- **CRRA/I-CRRA**
 - AF CONOPs
 - MCL
- **COCOM IPLs**
 - Quick-Reaction Capability Packages
 - ICDs (formerly C-MNS)
- **Joint Capabilities Documents (JCD)**
 - JC2 CDD for example

Future Criteria

Single Consolidated Source

“C2C CDD”



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Backups

Backups



AFC2ISRC Net-Centric Pathfinder Integration Plan Tasking

**ESTABLISH AN INTEGRATED PLAN
FOR THE AFC2ISRC PATHFINDER
PROGRAMS TO BECOME NET-CENTRIC AND
LEAD THE AF TO NET-CENTRICITY**





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AFC2ISRC Pathfinders

- **Air Operations Center**
- **DCGS AF**
- **E10**
- **AFFOR**
- **SC programs supporting ConstellationNet**





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Plan Content

- **C2 Constellation Endstate Description**
- **Net-centric Infostructure
Contribution to ConstellationNet and
JC2**
- **Integrated Timeline**
- **Metrics and Levels Of Net-centricity**
 - **Net-centric check-list**
- **Governance**
- **Detailed Pathfinder Migration Plans**





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Plan Objectives

- **Make Pathfinders net-centric via a common infostructure**
 - Implement the AFC2ISRC Integration Task Force to oversee the effort
 - Leverage current DIB and TBONE initiatives
 - Integrate requirements and programming effort
 - Reconcile Constellation related architectures (C2 Constellation, ConstellationNet, ISR MAA, etc.)
 - Mandate Pathfinder use of Metrics/Checklist to establish baseline, assess current status, help establish integrated requirements and prioritize efforts
- **Dedicate concerted effort to develop ConstellationNet and Airborne Network requirements**
 - Partner with AFCA to produce ConstellationNet ICD and Airborne Network CONOPS, CONEMP, CDD
- **Use Pathfinder approach to launch AF Net-Centric Warfare Strategic Plan with MAJCOMs and CONOPs champions**
- **Use Pathfinders to lead USAF migration to JC2**





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Plan Implementation

ESTABLISH THE INTEGRATION TASK FORCE (ITF)

- **A governing and action-oriented structure to direct and implement a Pathfinder common infostructure and net-centric community-of-interest activity**
 - **IPTs and RWGs NOT conducive to horizontal integration**





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ITF Main Functions

- **Drive integration of Pathfinder Programs**
- **Produce integrated, prioritized rqmts list**
- **Reduce duplication of effort**
- **Synchronize COI activities**
- **Identify/Assess the impact of migrating to a common infrastructure**

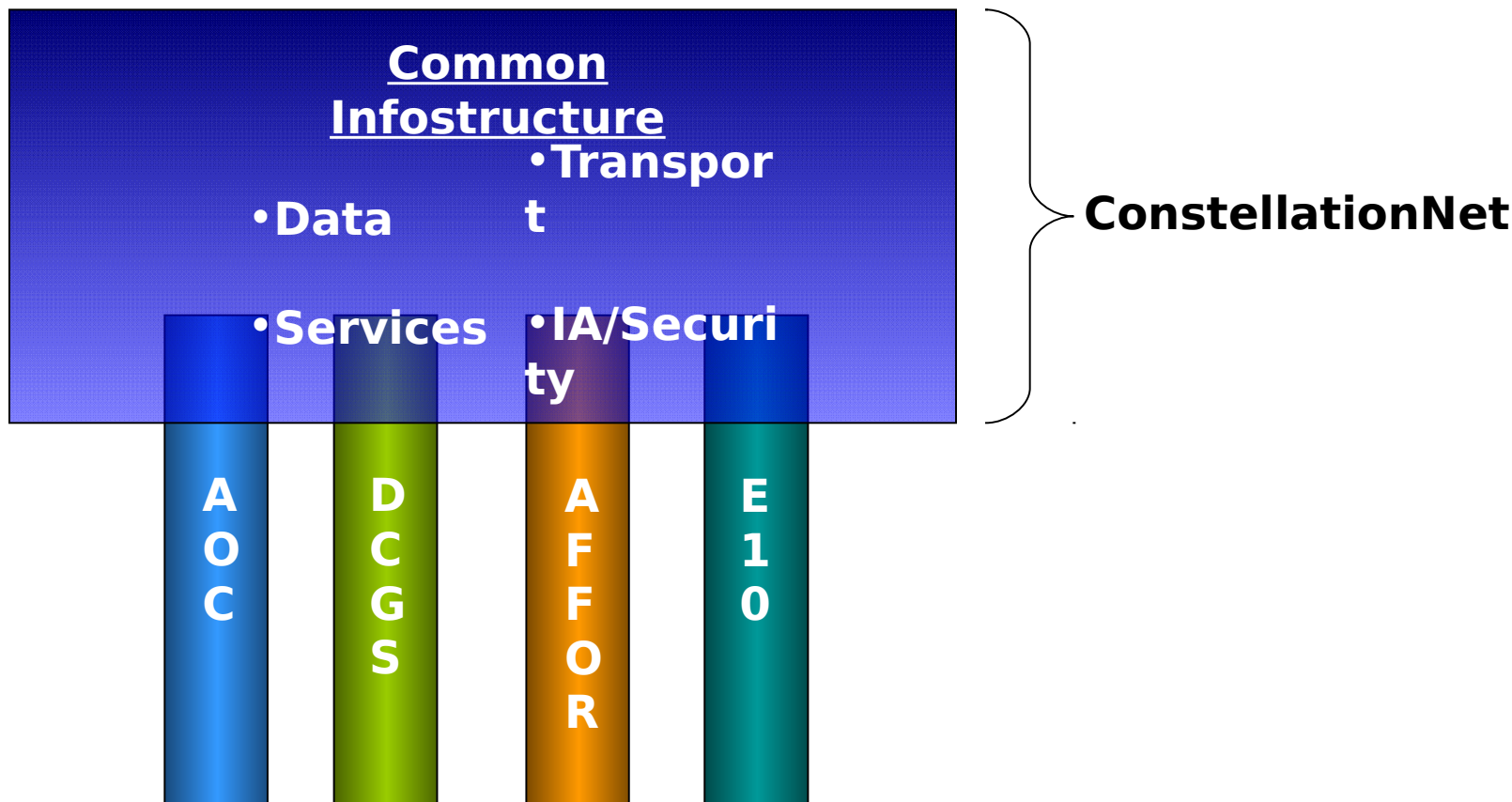


ITF WILL DRIVE RESOURCE AND PROGRAMMATIC DECISIONS



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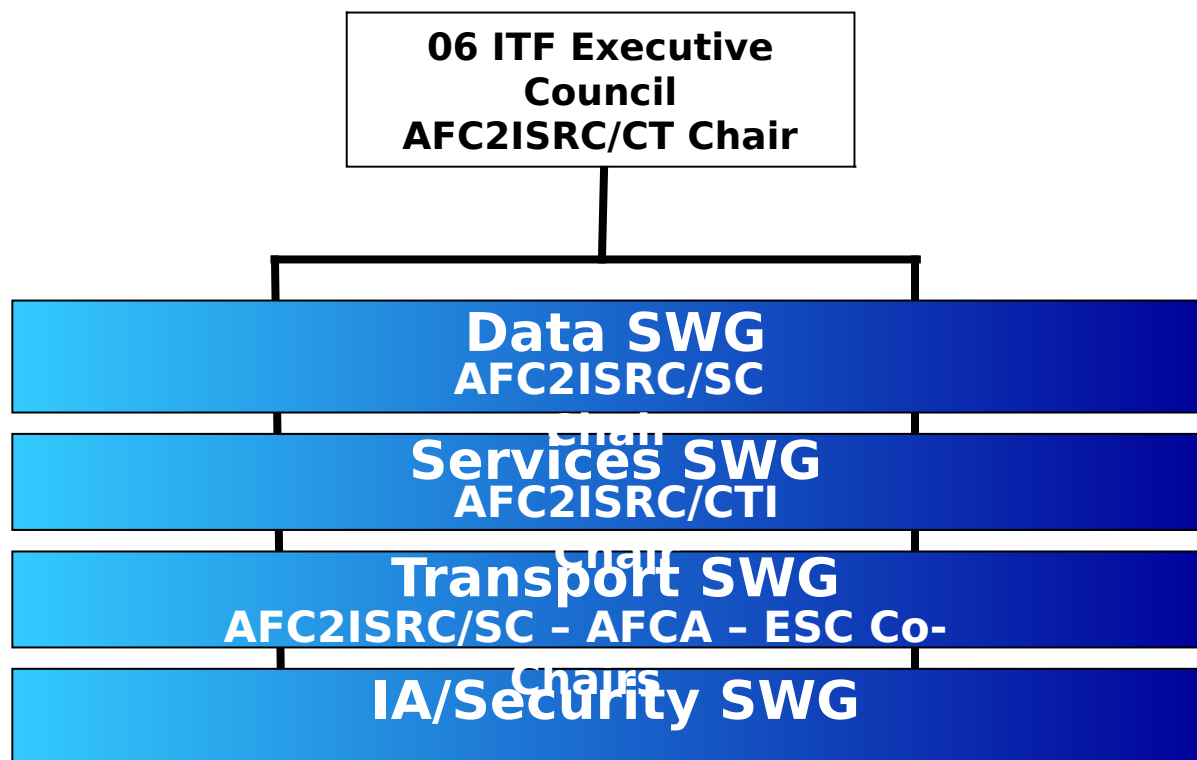
Common Infostructure





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ITF Structure





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ITF Structure - DATA WG



- Identify membership, data owners, users, and producers
- Execute DoD Net-Centric Strategy for the AF Warfighter programs
- Identify data standards, vocabulary, ownership, authoritative sources
- Create common data models
- Prepare integrated data access plans
- Establish COI data processes (structural, security, semantic, mediation)
- Ensure all data is XML metadata tagged, accessible, and discoverable
- Register metadata with the DoD Metadata Registry





ITF Structure - Services WG

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DATA WG

Memberships

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Service owners
and users

SERVICES WG
AFC2ISRC/CTI Chair

Memberships

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Development
community

- Identify membership
- Identify and modernize required Warfighter Mission Area services
- Map required services to existing services to eliminate redundancy
- Register Warfighter Mission Area services with AF & DoD Service Registries
- Establish migration plan to AF EITS & DoD Core Enterprise Services to include ensuring interoperability between Warfighter Mission Area and Core Services
- Conduct architectural and task analyses to identify Service gaps in the Warfighter Mission Area and to identify requirements for new or modified Warfighter Mission Area Services or EITS/DoD Core Services
- Identify Warfighter requirements for AF & DoD Core Services
- Nominate appropriate Warfighter Mission Area services to be adopted as AF or DoD Core Services
- Direct the retirement of redundant or ineffective Warfighter Domain Services
- Prioritize funding and development of new Warfighter Domain Service innovations and initiatives.
- Manage Warfighter Mission Area services throughout life cycle





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ITF Structure - Transport WG

DATA WG

SERVICES WG



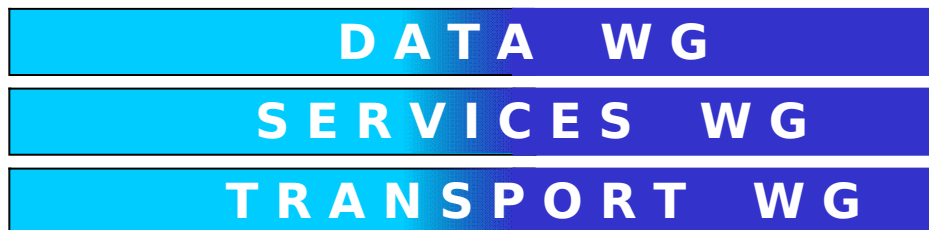
- Identify membership
- Support End-to-End Connectivity throughout the GIG
- Manage Pathfinder migration to IPv6 and waivers
- Develop and implement Airborne Network requirements
- Manage integrated transport fielding plan





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ITF Structure - IA/Security WG



Membershi

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User community

IA/SECURITY WG

Membershi

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Development
community

- Identify membership
- Tailor DOD-specified requirements for IA security services to meet Pathfinder needs
- Work Multiple Levels of Security issues
- Manage accreditation of the common infostructure

